uMic guide

unitron™ Hearing matters

Thank you

Thank you for choosing the Unitron uMic.™

At Unitron, we care deeply about people with hearing loss. We work closely with hearing healthcare professionals to make advanced, purpose-driven solutions available to everyone. Because hearing matters.

Your uMic

Hearing healthcare professional: _____

_____

Telephone: _____

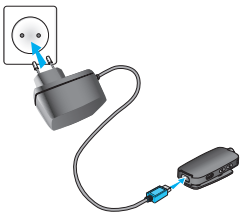
Serial number of uMic: _____

Warranty: _____

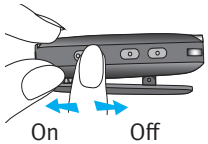
Date of purchase:_____

Quick reference

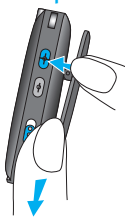
Charging uMic



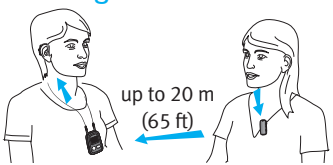
On/Off



Bluetooth pairing



Wearing uMic



Indicator

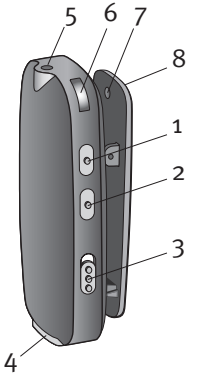
Switching on		Green 2 seconds
Switching off		Red 2 seconds
Charging		Solid red
Low battery warning		Additional red short blink as well as the main light
Streaming		Solid blue
Streaming paused		Short blink blue
Pairing mode		Rapid blink blue

Table of contents

Your uMic at a glance 2
Getting started 4
Charging the uMic 5
Turning the uMic on and off 7
Bluetooth pairing with the uMic 8
Understanding the status light 10
Functional test of uMic 12
Wearing the uMic correctly 13
Setting the uMic volume 14
Switching the uMic off 15
uMic and phone calls 16
uMic and watching TV 17
uMic streaming distance 18
Deleting all Bluetooth pairings 19
Use of the lanyard 20
Troubleshooting guide 21
Warnings 26
Compliance information 30
Information and explanation of symbols 32

Your uMic at a glance

1 Volume up (+)
2 Volume down (−)
3 Power switch (I/O)
4 Charging input (mini-USB)
5 Microphone opening
6 Status indicator light
7 Eyelet for lanyard
8 Retaining clip



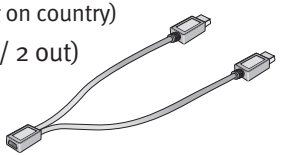
Accessories

(Contents may vary depending on country)

Dual mini-USB splitter (1 in / 2 out)

Lanyard

Protective pouch



Other optional accessories

Unitron mini-USB power supply

12V car charger adapter

uMic requires a uDirect™ 2, uDirect 3 or uStream, in order to be used with your Unitron hearing aid. See the appropriate user guide for details.

Getting started

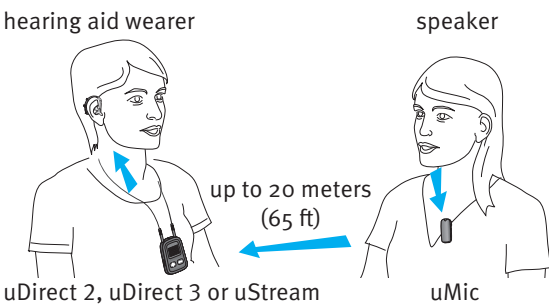
The system consists of three main elements:

- uMic
- Unitron hearing aids
- A streamer

The uMic is compatible with three streaming devices, uDirect 2, uDirect 3 and uStream.

The uMic transmits the speaker's voice wirelessly to your hearing aids via the streamer.

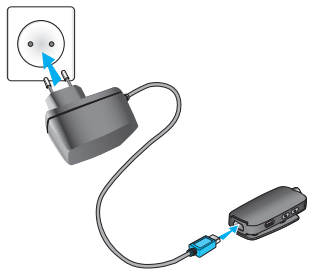
The hearing aid microphone level will automatically be adjusted while the uMic signal is received. The level of adjustment is set by your hearing healthcare professional.



Charging the uMic

Your uMic has a built-in, non-removable rechargeable battery. When the battery is low, the indicator light will blink red.

To charge:



1. Insert the Unitron power supply provided with the uDirect 2 or uDirect 3 into the uMic mini-USB socket.
2. Plug the power supply into a power outlet.

Typical charging time is two hours. Charging is complete when the indicator light turns solid green.

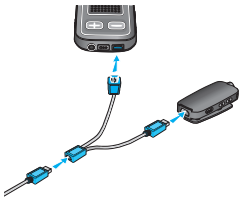
When charging your uMic for the first time, let it charge for at least three hours, even if the battery indicator is not lit or turns green earlier.

Using one power supply for two devices:

Insert the dual mini-USB splitter between the power supply and the devices as shown below.

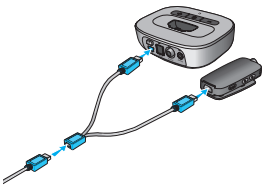
With uDirect 2, uDirect 3 or uStream:

Both devices can be charged at the same time.



With uTV™ 3:

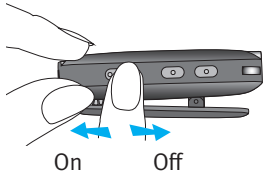
The uMic can be charged while uTV 3 is being used.



It is safe to leave the uMic connected to the charger overnight.

Turning the uMic on and off

Slide the power switch (I/O) as shown to turn the uMic on or off.



Sleep mode:

If after 30 minutes no streamer device is found the uMic will power down to save battery life even if the power switch is in the on position.

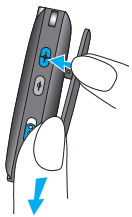
To recover from sleep mode, switch the uMic off and turn it on again.

Bluetooth pairing with the uMic

Put uMic into pairing mode:

If the uMic has never been paired before, pairing mode will be automatically activated after turning it on.

To manually start pairing mode:



1. Switch the uMic off.
2. Press and hold the volume up button (+).
3. Turn the uMic on while still pushing the (+) button.
4. Release the (+) button after two seconds when the indicator light rapidly blinks blue.
5. Make sure the streamer and uMic are within 1 m (3 ft) range of each other.

The uMic will remain in pairing mode for two minutes or until the pairing is completed.

Completion of pairing:

Wait until both indicator lights turn solid blue. This can take up to two minutes but typically is done within a few seconds.

The uMic can be paired to a maximum of four devices. A fifth pairing will replace the first paired device.

Two devices need to be paired only once. They remain paired after switching off and will automatically connect after being turned on again.

Understanding the status light

Information during operation:

Switching on	Green 2 seconds	
Streaming	Solid blue	
Streaming paused	Short blue blink	
Pairing mode	Rapid blue blink	

Information about power and battery:

Switching on	Green 2 seconds	
Switching off	Red 2 seconds	
Charging	Solid red	
Charged and full battery	Solid green	
Low battery warning	Additional red short blink as well as the main light	
uMic sleep mode or off	Indicator is unlit	

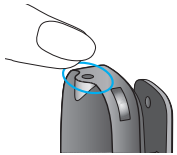
Switch the uMic off and on again to turn the device on from sleep mode.

If the red “low battery” blinks:

- Battery level is ‹20%
- Less than 1.5 hours are left for streaming
- Consider charging the uMic

The uMic can also be charged during operation.

Functional test of uMic

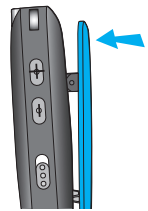


After pairing to your streamer, perform a quick functional test by gently tapping on the microphone opening.

You should clearly hear the tapping noise in your hearing aids.

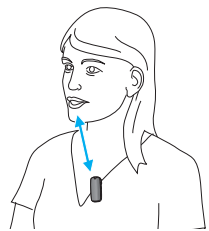
Line of sight between the uMic and the streamer is usually not required. If the audio transmission ends abruptly, refer to the troubleshooting guide.

Wearing the uMic correctly



1. Gently press to open the clip.
2. Ensure the uMic is clipped securely to clothing as shown in the picture.
3. To prevent scratching sounds, do not cover the uMic with clothing during use.

Distance to the speaker's mouth:



- Best results are achieved at 20 cm (8")
- Do not exceed 50 cm (20") for consistent audio

The higher the ambient noise, the closer the uMic should be positioned to the speaker's mouth.

Do not use a neckloop lanyard during streaming. Scratching noise may negatively impact the sound.

Setting the uMic volume

To change the uMic volume:

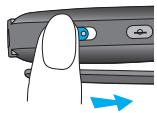
1. Speak into the uMic from a 20 cm (8”) distance.
2. Use the volume (⊕/⊖) buttons to set the uMic volume to adjust the sensitivity and strength of the microphones.

If your hearing aids pick up too much ambient noise, reduce the volume on your hearing aids and increase the volume on your uMic.

The uMic volume setting will be stored even when switched off.

Your hearing healthcare professional can change the level of the hearing aid microphones while using the uMic to adjust the volume of sounds around you.

Switching the uMic off



To end the uMic transmission completely, switch off the uMic by sliding the power switch to the off position.

In the off position, the white marking cannot be seen.

Switch the uMic off when not in use.

If the uMic connection to a streamer was lost for more than 30 minutes, the uMic will go into sleep mode to save power. The light indicator will turn off and a uMic re-start (turn off and on again) is required to resume the transmission.

uMic and phone calls

Phone calls via Bluetooth will always take priority over the uMic streaming.

If uDirect 2, uDirect 3 or uStream streamer is paired with your mobile phone, you can still receive phone calls, even when using uMic. In case of an incoming call, the streamer automatically stops transmitting the audio signal from your uMic and and sends the signal from your mobile phone to your hearing aids instead.

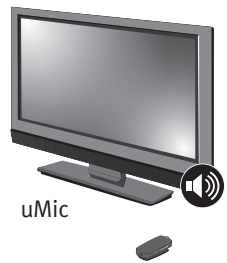
uMic and watching TV

To ensure a high quality audio in stereo sound from the TV, we recommend using the dedicated uTV 3.

In cases where an analog TV-audio output is not available or while traveling, the uMic may be used to improve the sound quality while watching TV.

For best results:

1. Try to locate the TV loudspeaker.
2. Place the uMic 20 cm (8”) from the speaker.
3. Consider leaving the charger plugged in while watching TV.



uMic streaming distance

The uMic transmitter supports operation up to a range of 20 m (65 ft). Line-of-sight between your streamer and the uMic is not required. Interference in the environment by objects in the line-of-sight may reduce the operating range.

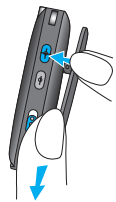
If the uMic is moved out of range of the streamer, the wireless audio transmission will be interrupted or even terminated. If the uMic is then moved back into range of the streamer, it will automatically resume streaming to your hearing aids.

It may take up to ten seconds until the streaming resumes.

If the streaming was interrupted for more than 30 minutes, it may be necessary to switch the uMic off and on again.

Deleting all Bluetooth pairings

If you encounter issues with one of the paired devices, or if a device stops connecting to your uMic, you may consider deleting all pairings from the uMic.



1. Turn the uMic on while pushing and holding the (⊕) button for ten seconds. This deletes all pairings.
2. Release the (⊕) button when the blue indicator light turns green.

Deleting the pairing of Bluetooth devices removes the ability to connect to any previously paired Bluetooth device. You need to perform the pairing process again (see page 8) if you wish to reconnect.

The status light will rapidly blink blue for a few seconds after pairings were deleted (automatic pairing mode).

Use of the lanyard

For transportation, you may use the detachable lanyard as illustrated.

Troubleshooting guide

Most probable cause	Remedy
I cannot hear sound from the uMic	
One or all devices are switched off	Make sure all devices (uMic, streamer, hearing aids) are turned on and fully operational
uMic is in pause mode (blue blinking status light)	Short press the streamer access button to resume streaming
The distance between the streamer and the uMic is too great	Bring devices closer to each other; 20 meters (65 ft) is the maximum distance. To avoid streaming interruptions, make sure you wear the streamer correctly and keep the uMic within the operating range
An obstacle is preventing transmission	Depending on the material, line of sight may be necessary

Most probable cause	Remedy
I hear intermittency during audio transmission	
The uMic is too far away from the streamer or shielded by an obstacle	Do not exceed the maximum distance and relocate device
The streamer searches for other paired devices for two minutes after turning on. This may cause the audio signal to drop	After two minutes, the streamer will stop searching for other devices and the intermittency will stop
The volume during streaming is not suitable (too low or too high)	
The volume levels are not set correctly	Adjust the volume using the streamer volume (+/−) buttons. The volume can also be adjusted on the uMic (+/−) buttons

Most probable cause	Remedy
There is too much noise, I cannot understand the speaker	
Your hearing aid microphones are set too loud	Reduce the hearing aid volume by pressing the streamer (−) key until you reach a comfortable level. Place the uMic closer to the speakers mouth (20 cm, 8”). Use the uMic (+) button to increase the uMic volume
The uMic rubs against the wearer’s clothing	Make sure the uMic is clipped firmly. Clothing should not cover the uMic
The settings of your hearing aids are not right	Please ask your hearing healthcare professional to fine tune your hearing aids

Most probable cause	Remedy
uMic is no longer recognized by the streamer with which it was previously paired	
Two minutes after no device was found, the streamer stops seeking devices to save power	Switch the streamer off. Wait until the red power indicator turns off, then turn device on again
The devices are too far away from each other	Bring devices within 1 meter range and try again
uMic can be paired to a maximum of four different Bluetooth devices. If the internal memory is full, the fifth pairing will delete the first pairing	Repeat the pairing between the devices
Pairing was never done, or it was manually deleted	Repeat the pairing between the devices
The light indicator does not turn solid blue	
uMic and the streamer are not paired	Repeat the pairing between the devices

Most probable cause	Remedy
I see a rapidly blinking blue indicator light on the uMic	
uMic is in pairing mode	Complete the pairing
Indicator lights are solid blue but I cannot hear the uMic	
The streamer is out of range of the hearing aids	Wear the streamer around the neck and correctly secure the neckloop
The streamer is not correctly programmed for your hearing aids	Ask your hearing healthcare professional to reconfigure your streamer and the hearing aids
The charging time is longer than usual	
Device is being used during charging	Charging during use is possible, however, the charging time is increased by 30% (>2hr)
The charger is not providing enough charging current	Only use chargers approved by Unitron

For any problems not listed in this user guide, please contact your hearing healthcare professional.

Warnings

Please read the information on the following pages before using your Unitron uMic.

Hazard warnings

⚠ Keep this device out of reach of pets and children under 3 years.

⚠ Only use hearing aids that have been specially programmed for you by your hearing healthcare professional.

⚠ Changes or modifications to any of the devices that were not explicitly approved by Unitron are not permitted.

⚠ For persons with active implantable medical devices (i.e. pacemakers, defibrillators, etc.) the use of this device is not permitted. Ask your hearing healthcare professional for details.

⚠ Opening the uMic might damage it. If problems occur which cannot be resolved by following the remedy guidelines in the troubleshooting section of this user guide, consult your hearing healthcare professional.

⚠ This product has an embedded, non-replaceable battery. Do not attempt to open the product or remove the battery as this may cause injury and damage the product.

⚠ Dispose of electrical components in accordance with your local regulations.

⚠ Do not use the device in explosive areas (mines or industrial areas with danger of explosions, oxygen rich environments or areas where flammable anesthetics are handled) or where electronic equipment is prohibited.

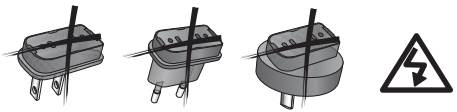
⚠ External devices may only be connected if they have been tested in accordance with corresponding IECXXXXX standards. Only use accessories approved by Unitron.

⚠ Using your uMic cables in any way contradictory to their intended purpose (e.g., wearing the USB cable around the neck) can cause injury.

⚠ When operating machinery, ensure that no parts get caught in the machine.

⚠ The mini-USB port is to be used for the described purpose only.

⚠ Caution: electric shock. Do not insert plug alone into electrical outlets.



⚠ For safety reasons, only use chargers supplied by Unitron or stabilized chargers with a rating of 5VDC, min. 500 mA.

Information on product safety

⚠ Do not charge uMic from a PC or laptop USB port. This may damage your equipment.

⚠ Turn off the uMic when not in use.

⚠ Always plug in the uDirect 2 or uDirect 3 neckloop and wear it around the neck when transmitting signals to your hearing aids.

⚠ Protect the device connectors, plugs, charging slot and power supply from dirt and debris.

⚠ Protect all devices from excessive moisture (bathing or swimming areas) and heat sources (radiator, TV top). Protect devices from excessive shock and vibration.

⚠ Clean devices using a damp cloth. Never use household cleaning products (washing powder, soap, etc.) or alcohol to clean them. Never use a microwave or other heating devices to dry any of the devices.

⚠ The digitally-coded, inductive transmission technology used in these devices is extremely reliable and experiences virtually no interference from other devices. It should be noted, however, that when operating the system near computer equipment, larger electronic installation or other strong electromagnetic fields, it may be necessary to be at least 60 cm (24”) away from the interfering device to ensure proper operation.

⚠ Special medical or dental examination including radiation described below, may adversely affect the correct functioning of your uMic. Remove and keep it outside the examination room/area before undergoing a medical or dental examination with X-ray (also CT scan) or any medical examinations with MRI/NMRI scans, generating magnetic fields.

Other important information

⚠ The uMic is a Bluetooth 2.1 compliant device. Its wireless transmission technology is not limited to but optimized for Unitron streamer devices such as the uDirect 2 or uDirect 3.

⚠ The use of uMic with non-Unitron streamers is not supported by Unitron.

Compliance information

Declaration of Conformity

Hereby Unitron declares that this Unitron product is in compliance with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive 1999/5/EC. The full text of the Declaration of Conformity can be obtained from the manufacturer or the local Unitron representative whose address can be taken from the list on www.unitron.com (worldwide locations).

Notice 1:

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1) this device may not cause harmful interference, and
2) this device must accept any interference received, including interference that may cause undesired operation.

Notice 2:

Changes or modifications made to this device not expressly approved by Unitron may void the FCC authorization to operate this device.

Notice 3:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules and ICES-003 of Industry Canada. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in

accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the device and receiver. Connect the device into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Notice 4:

FCC/IC RF Radiation Exposure Statement. This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Australia: Supplier Code Number N15398

New Zealand: Supplier Code Number Z1285

Information and explanation of symbols

CE XXXX	The CE symbol is a confirmation by Unitron that this Unitron product meets the requirements of the R&TTE Directive 1999/5/EC on Radio and Telecommunication Terminal Equipment. The numbers after the CE symbol are the numbers of the consulted certified bodies under the above mentioned directives.
	This symbol indicates that it is important for the user to read and take into account the relevant information in this user guide.
	This symbol indicates that it is important for the user to pay attention to the relevant warning notices in this user guide.
	Important information for handling and product safety.
	Australian EMC and Radiocommunications compliance label.
	This symbol indicates that the products described in these user instructions adhere to the requirements for an application part of Type B of EN 60601-1. The surface of the hearing aid is specified as applicated part of Type B.
EC REP	This symbol shall be accompanied by the name and the address of the authorised representative in the European Community.

This symbol shall be accompanied by the name and the address of the manufacturer (who are placing this device on the market).

Operating conditions:

This device is designed such that it functions without problems or restrictions if used as intended, unless otherwise noted in these user guides.

Transport and storage conditions:

Temperature: –20° to +60° Celsius (–4° to +140° Fahrenheit).
Humidity Transportation: Up to 90% (non condensing).
Humidity Storage: 0% to 70%, if not in use.
Atmospheric pressure: 200 hPA to 1500 hPa.

The symbol with the crossed-out garbage bin is to make you aware that this device may not be thrown away as normal household waste. Please dispose of old or unused devices, at waste disposal sites intended for electronic waste, or give your device to your hearing healthcare professional for disposal. Proper disposal protects the environment and health.

Bluetooth The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Unitron is under license. Other trademarks and trade names are those of their respective owners.

Unitron Hearing
20 Beasley Drive, P.O. Box 9017,
Kitchener, ON N2G 4X1 Canada

EC REP
Unitron Hearing GmbH
Max-Eyth-Straße 20, 70736
Fellbach-Oeffingen, Germany

For a listing of Unitron group companies, please visit www.unitron.com

CE 0678

Distributor

C/14-050 029-5905-02

unitron.com

0 698764 584586